

AMENDMENTS TO THE CLAIMS

1-22. (Canceled)

23. (Currently amended) A transmitter, said transmitter comprising:

(a) an output stage that generates ~~an ultra wideband signal~~ a monocycle pulse;

(b) a filter that spectrally modifies ~~the said ultra wideband signal~~ monocycle pulse to create a spectrally modified ultra wideband signal having one or more zero crossings than the monocycle pulse in the time domain; and

(c) an antenna coupled to said filter that radiates said spectrally modified ultra wideband signal.

24. (Canceled)

25. (Previously presented) The transmitter of claim 23, wherein said filter is a bandpass filter.

26. (Cancelled)

27. (Currently amended) The transmitter of claim 23, wherein said output stage generates said ~~ultra wideband signal~~ monocycle pulse based upon a trigger signal.

28. (Previously presented) The transmitter of claim 27, wherein said trigger signal is applied to at least one switch.

29. (Previously presented) The transmitter of claim 28, wherein said at least one switch comprises at least one transistor.

30. (Previously presented) The transmitter of claim 27, wherein said trigger signal is based on at least one of an information signal, a code signal, and a subcarrier signal.

31. (Currently amended) A method of transmitting, comprising:
- (a) generating ~~an ultra wideband signal~~ a monocycle pulse;
 - (b) spectrally modifying the ~~ultra wideband signal~~ monocycle pulse to create a spectrally modified ultra wideband signal having one or more zero crossings than the monocycle pulse in the time domain; and
 - (c) radiating the spectrally modified ultra wideband signal.
32. (Cancelled)
33. (Currently amended) The method of claim 31, wherein a filter is used to spectrally modify the ~~ultra wideband signal~~ monocycle pulse.
34. (Currently amended) The method of claim 33, wherein said filter is a ~~bandpass~~ bandpass filter.
35. (Cancelled)
36. (Currently amended) The method of claim 31, wherein said generating the ~~ultra wideband signal~~ monocycle pulse is based on a trigger signal.
37. (Previously presented) The method of claim 36, wherein said trigger signal is applied to at least one switch.
38. (Previously presented) The method of claim 37, wherein said at least one switch comprises at least one transistor.
39. (Previously presented) The method of claim 36, wherein said trigger signal is a based on at least one of an information signal, a code signal, and a subcarrier signal.

40. (Currently amended) A method of transmitting, comprising:
- (a) generating ~~an ultra wideband signal~~ a monocycle pulse;
 - (b) filtering the ~~ultra wideband signal~~ monocycle pulse to create a filtered ultra wideband signal having one or more zero crossings than the monocycle pulse in the time domain;
- and
- (c) radiating the filtered ultra wideband signal.

41. (Previously presented) The method of claim 40, wherein said filtering is by a bandpass filter.

42. (Currently amended) The method of claim 40, wherein said generating the ~~ultra wideband signal~~ monocycle pulse is based on a trigger signal.